

WHAT IS CLAIMED IS:

1. A rigid container comprising:
  - a) an oxygen barrier having an oxygen transmission rate of no more than 100 cc/m<sup>2</sup>/24hr at 25°C, 0% RH, 1 atm (ASTM D 3985);
  - b) an oxygen scavenger; and
  - c) an oxygen indicator comprising a luminescent compound.
2. The rigid container of claim 1 comprising
  - a) a first layer comprising an oxygen barrier having an oxygen transmission rate of no more than 100 cc/m<sup>2</sup>/24hr at 25°C, 0% RH, 1 atm (ASTM D 3985);
  - b) a second layer comprising an oxygen scavenger; and
  - c) a third layer comprising an oxygen indicator comprising a luminescent compound.
3. The rigid container of claim 2 comprising a fourth layer comprising an oxygen barrier having an oxygen transmission rate of no more than 100 cc/m<sup>2</sup>/24hr at 25°C, 0% RH, 1 atm (ASTM D 3985).
4. The rigid container of claim 1 comprising
  - a) a first layer comprising an oxygen barrier having an oxygen transmission rate of no more than 100 cc/m<sup>2</sup>/24hr at 25°C, 0% RH, 1 atm (ASTM D 3985);
  - b) a second layer comprising an oxygen indicator comprising a luminescent compound; and
  - c) a third layer comprising an oxygen scavenger.
5. The rigid container of claim 4 comprising a fourth layer comprising an oxygen barrier having an oxygen transmission rate of no more than 100 cc/m<sup>2</sup>/24hr at 25°C, 0% RH, 1 atm (ASTM D 3985).

6. The rigid container of claim 1 comprising
- a) a first layer comprising an oxygen barrier having an oxygen transmission rate of no more than 100 cc/m<sup>2</sup>/24hr at 25°C, 0% RH, 1 atm (ASTM D 3985); and
  - 5 b) a second layer comprising a blend of an oxygen scavenger, and an oxygen indicator comprising a luminescent compound.

7. The rigid container of claim 1 wherein the oxygen indicator comprises all or part of a printed image.

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8. A rigid container comprising:
- a) an oxygen barrier layer, the oxygen barrier layer having an oxygen transmission rate of no more than 100 cc/m<sup>2</sup>/24hr at 25°C, 0% RH, 1 atm (ASTM D 3985);
  - 15 b) an oxygen scavenger layer, the oxygen scavenger layer forming the innermost layer of the rigid container; and
  - c) a patch, adhered to the oxygen barrier layer, comprising an oxygen indicator comprising a luminescent compound.

20 9. The rigid container of claim 8 wherein the oxygen scavenger and the oxygen indicator are substantially shielded from sources of oxygen exterior to the rigid container.

25 10. The rigid container of claim 8 wherein the oxygen indicator comprises a printed image.

- 30 11. A rigid container consisting essentially of:
- a) an oxygen barrier layer, the oxygen barrier layer having an oxygen transmission rate of no more than 100 cc/m<sup>2</sup>/24hr at 25°C, 0% RH, 1 atm (ASTM D 3985);
  - b) an oxygen scavenger layer; and
  - c) a patch, adhered to the oxygen barrier layer, comprising an oxygen indicator comprising a luminescent compound.

12. The rigid container of claim 11 wherein the oxygen indicator comprises a printed image.

13. A rigid container comprising:

5 a) a blend of

i) an oxygen barrier, the oxygen barrier having an oxygen transmission rate of no more than 100 cc/m<sup>2</sup>/24hr at 25°C, 0% RH, 1 atm (ASTM D 3985), and

ii) an oxygen scavenger; and

10 b) a patch, adhered to the blend, comprising an oxygen indicator comprising a luminescent compound.

14. The rigid container of claim 13 wherein the oxygen indicator comprises a printed image.

15 15. A rigid container comprising:

a) a tray comprising a tray liner, and a tray flange; wherein the tray liner comprises an oxygen indicator comprising a luminescent compound; and

20 b) a lidstock comprising an oxygen barrier having an oxygen transmission rate of no more than 100 cc/m<sup>2</sup>/24hr at 25°C, 0% RH, 1 atm (ASTM D 3985), and an oxygen scavenger.

16. The rigid container of claim 15 wherein the oxygen barrier and oxygen 25 scavenger are disposed in separate layers.

17. The rigid container of claim 15 wherein the lidstock comprises a sealant.

18. The rigid container of claim 15 wherein the tray liner comprises a sealant.

30 19. A rigid container comprising:

a) a tray comprising a tray liner, and a tray flange, wherein the tray liner comprises an oxygen indicator comprising a luminescent compound, and an oxygen scavenger; and

- b) a lidstock comprising an oxygen barrier having an oxygen transmission rate of no more than 100 cc/m<sup>2</sup>/24hr at 25°C, 0% RH, 1 atm (ASTM D 3985).
- 5        20. The rigid container of claim 19 wherein the oxygen indicator and oxygen scavenger are disposed in separate layers.
- 10      21. The rigid container of claim 19 wherein the lidstock comprises a sealant.
- 10      22. The rigid container of claim 19 wherein the tray liner comprises a sealant.
- 15      23. A rigid container comprising:
  - a) a tray comprising a tray liner, and a tray flange, wherein the tray liner comprises an oxygen scavenger; and
  - b) a patch, adhered to the tray flange, comprising an oxygen indicator comprising a luminescent compound.
- 20      24. The rigid container of claim 23 wherein the tray liner comprises a sealant.
- 20      25. The rigid container of claim 23 wherein the patch comprises an oxygen barrier having an oxygen transmission rate of no more than 100 cc/m<sup>2</sup>/24hr at 25°C, 0% RH, 1 atm (ASTM D 3985).
- 25      26. A rigid container comprising:
  - a) a tray comprising a tray flange, wherein the tray comprises an oxygen indicator comprising a luminescent compound; and
  - b) a lidstock comprising an oxygen barrier having an oxygen transmission rate of no more than 100 cc/m<sup>2</sup>/24hr at 25°C, 0% RH, 1 atm (ASTM D 3985), and an oxygen scavenger.
- 30      27. The rigid container of claim 26 wherein the oxygen barrier and oxygen scavenger are disposed in separate layers.
- 30      28. The rigid container of claim 26 wherein the lidstock comprises a sealant.

29. The rigid container of claim 26 wherein the tray liner comprises a sealant.

30. A rigid container comprising:

a) a film comprising

5 i) an oxygen barrier having an oxygen transmission rate of no more than 100 cc/m<sup>2</sup>/24hr at 25°C, 0% RH, 1 atm (ASTM D 3985);

ii) an oxygen scavenger; and

10 iii) an oxygen indicator comprising a luminescent compound; and

b) a paperboard substrate.